

Foot Insole Sensor LP4316



Product Overview:

Introducing our Foot Insole Printed Force Sensor, a cutting-edge solution designed to provide real-time, accurate, and unobtrusive monitoring of foot pressure and force distribution. This innovative sensor is ideal for a wide range of applications, from sports performance analysis and medical diagnostics to rehabilitation and gait analysis. Flexible, cost-efficient, can be custom designed for specific applications and offers various integration possibilities.

Key Features:

- **Ultra-Thin Profile:** Our printed force sensor is exceptionally thin and flexible, ensuring a comfortable fit inside shoes or orthopedic insoles without compromising on performance.
- **High Sensitivity:** The sensor boasts high sensitivity, capable of detecting even the slightest variations in foot pressure. It provides precise data on force distribution across the foot.
- **Real-Time Monitoring:** With real-time data acquisition capabilities, this force sensor allows for immediate analysis of foot pressure patterns, making it invaluable for sports coaches, healthcare professionals, and researchers.
- **Customizable Design:** We offer customization options to tailor the sensor's dimensions and sensitivity to specific application requirements.
- **Durable Construction:** Built to withstand the rigors of daily use, our force sensor is crafted with robust materials to ensure long-lasting performance.
- **Easy Integration:** The sensor can be seamlessly integrated into various footwear types, including sports shoes, orthopedic inserts, and specialized medical shoes.

Applications:

Sports Performance Analysis, Medical Diagnostics, Rehabilitation, Gait Analysis, Footwear Development.

Technical Specifications:

Property	Value
Technology	Piezoresistive
Number of sensing points	8 points (Customize options)
Sensing Area	34*19 mm
Single sensor resistance range	500 to 10Kohm
Pressure range	0 -71 PSI (0 to 5Kg/cm ²)
Conductive Paste	Silver and Carbon
Overall Thickness	0.5mm
Material Type	(PET) Polyester durable material
Dimension	235mm X 90mmX0.5mm
Durability	>100K times
Country of origin	India